KEERTHANA S

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CAREER OBJECTIVE

Front-End Engineer specializing in JavaScript and TypeScript, with expertise in building scalable, high-performance web applications using React, Next.js, and Three.js. Experienced in frontend architecture, 3D web technologies, and modern UI engineering. Seeking an Associate Architect role to contribute to system design, mentor developers, and deliver impactful user experiences.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript
- **Front-End:** HTML5, CSS3, Tailwind CSS, React.js, Next.js, Redux
- **Back-End:** Node.js, Express.js, REST APIs, JWT Auth
- **Databases:** MySQL, MongoDB
- **WebGL & Graphics:** Three.js, React Three Fiber, GLSL Shaders, WebXR, GSAP
- **Tools & DevOps:** Git, GitHub, AWS (EC2, S3)
- **Game Engines:** Unity, Unreal
- **Methodologies:** Agile, Scrum

WORK EXPERIENCE

System Engineer   *Sep 2023 – Present*
Jobin and Jismi IT Services   *Kerala, India*

- Developed scalable front-end applications using React, Next.js, TypeScript, and Material UI.
- Worked on complex frontend architectures and performance-critical enterprise solutions.
- Designed reusable, maintainable UI components using object-oriented JavaScript principles.
- Integrated Node.js APIs and optimized rendering performance across devices.
- Participated in code reviews, frontend best practices, and junior developer support.

PROJECTS

- **Legendium.ai (EdTech 3D Simulation)** : Built a 3D WebGL learning platform with robot simulations using Three.js, physics, and custom shaders.
- **Dew Diamonds (3D E-commerce)** : Developed an immersive 3D jewellery shopping experience using React, Three.js, and React Three Fiber.
- **SkiPhone 15 (UI Clone)** : Created a pixel-perfect iPhone 15 landing page clone with GSAP animations and interactive 3D elements.
- **Cake Studio 3D (Configurator)** : Built a real-time 3D cake customization tool using React Three Fiber and Zustand.
- **Nexus Liquid (WebGL Simulation)** : Engineered a GPU-based fluid simulation using WebGL and GLSL shaders.

EDUCATION

B.E. – Computer Science & Engineering   *2023*
Solamalai College of Engineering, Madurai   *CGPA: 8.17 / 10*

CERTIFICATIONS

- **Full Stack Development – Udemy:** MERN Stack, MySQL with Node.js
- **NPTEL (IIT):** Python for Data Science, Big Data Computing